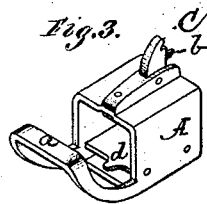
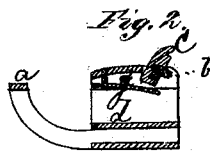
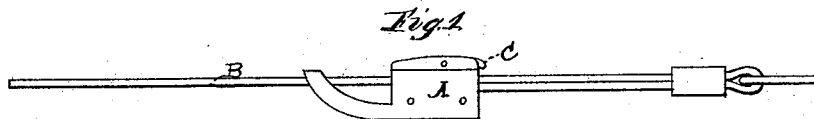


McMillan & Roman,

Buckle.

No. 112,947.

Patented Mar. 21. 1871.



Witnesses

Geo. A. Reid.
J. F. White

Inventors

McMillan & Roman.

Per,

J. F. Alexander
Att'y

United States Patent Office.

DUNCAN McMILLAN AND ABRAM ROWAN, OF WEBSTER CITY, IOWA.

Letters Patent No. 112,947, dated March 21, 1871.

IMPROVEMENT IN BUCKLES.

The Schedule referred to in these Letters Patent and making part of the same.

To all whom it may concern:

Be it known that we, DUNCAN McMILLAN and ABRAM ROWAN, of Webster City, in the county of Hamilton and State of Iowa, have invented certain new and useful Improvements in Buckles; and we do hereby declare that the following is a full, clear, and exact description thereof, reference being had to the accompanying drawing and to the letters of reference marked thereon which form a part of this specification, in which—

Figure 1 is a side elevation of our improvement with a strap attached, and

Figure 2 is a central section of the same, showing the position and arrangement of parts.

Figure 3 is a perspective view of the same with the tongue raised.

Similar letters of reference indicate corresponding parts in all of the figures.

The nature and object of our invention is sufficiently indicated by a reference to the drawing, and the same consists in the novel arrangement and combination, as well as construction of parts, whereby a simple, cheap, and effective buckle is made adapted to all of the ordinary uses of the buckle, and which requires no troublesome or expensive or external means of fastening the strap to the same.

A represents the body or frame of our improved buckle, and is made, as shown, with four sides, and with a stirrup or loop, *a*, and is provided with a diaphragm, *d*, upon one end of which is formed the hook or projection shown in fig. 3.

The diaphragm, or rather the space between it and the bottom of the body A, forms or provides a loop for one end of the strap B, which, when passed through the body and over the projection *d* of the diaphragm, and then into the loop, as above, becomes securely

fastened thereto, the projection, of course, passing through a suitable hole in the strap.

In the top of the body A is pivoted the tongue or latch C, which is provided with the stud *b*, which operates as the tongue of the buckle.

A spring, *g*, is arranged as shown, so as to hold the tongue open or closed, as desired. When the tongue is opened, it is held open by the spring until the strap is adjusted to the required length, and when the same is closed, it is held securely in place against any danger of displacement by accident.

The stirrup or loop *a* gives a length of bearing and braces the body without adding materially to the weight of the buckle.

It should be observed that the spring not only serves as such, but also as a brace to support the tongue C *b*, the part *b* resting against the end of the spring when down in place, to hold the strap against strains.

The spring, though elastic literally, has great longitudinal strength and readily subserves the two purposes. A much stronger buckle of the same weight and dimensions may be made than by any other arrangement of devices known to us.

Having thus fully described our invention,

What we claim as new, and desire to secure by Letters Patent, is—

The within-described buckle, consisting of body A, diaphragm *d*, loop *a*, tongue C *b*, and spring *g*, all arranged and operating substantially as set forth.

In testimony that we claim the foregoing as our own we affix our signatures in presence of two witnesses.

DUNCAN McMILLAN.
ABRAM ROWAN.

Witnesses:

W. R. PATRICK,
WILLIAM FLOYD.